

# Taking Time for Teamwork

## Hanging Objects above the Ground

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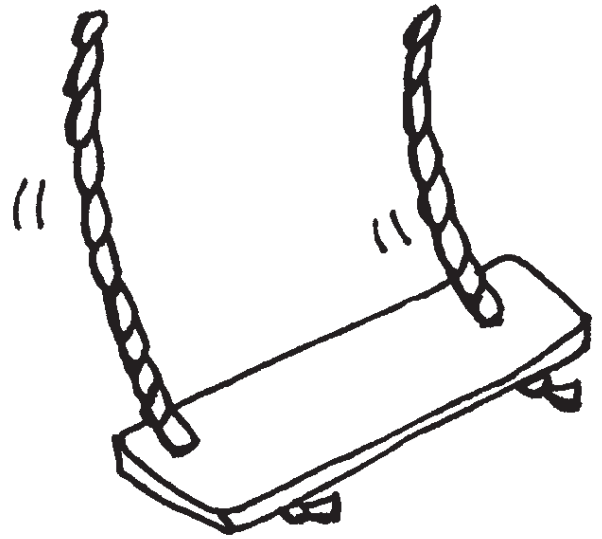
# Candy Swing

## Challenge

Build the longest swing that will support a cup containing 20 pennies.

## Supplies

- 15 marshmallows
- 2 paper clips
- 3 rubber bands
- 10 toothpicks
- 2 licorice sticks
- 1 cup
- tape to adhere the swing to the doorway
- meter stick or metric measuring tape for measurement
- 20 pennies to use during testing



## Requirements

1. At least one of each supply must be used.
2. The swing must be completed within the time limit.
3. The cup will act as the seat of the swing. The cup should be attached to the bottom of the swing in a way that it can hold the pennies.
4. All food items, including those not used, must be shown and counted prior to testing your swing. If any item is missing, the team is disqualified from the activity.

## Testing and Scoring

**Group goal** –The contraption must make one full swing to be counted.

- The swing must be lifted to a point 1 meter from the door jamb.
- Tape will be provided to hold the swing to the door jamb.
- Once the tape has been applied, the team has 5 seconds to touch the contraption before the measurement is taken.

**Scoring** – The longest contraption that makes a full swing will be considered the winner.

- The distance will be measured from the tape to the top of the cup.

## Teacher Notes

- Goggles are recommended for safety. Things may break under the stress of the added weight.
- At the end of the activity, let students eat the supplies.
- At the end of the activity, have students salvage as many of the unused or unbroken supplies as possible for use in other classes or for other activities.



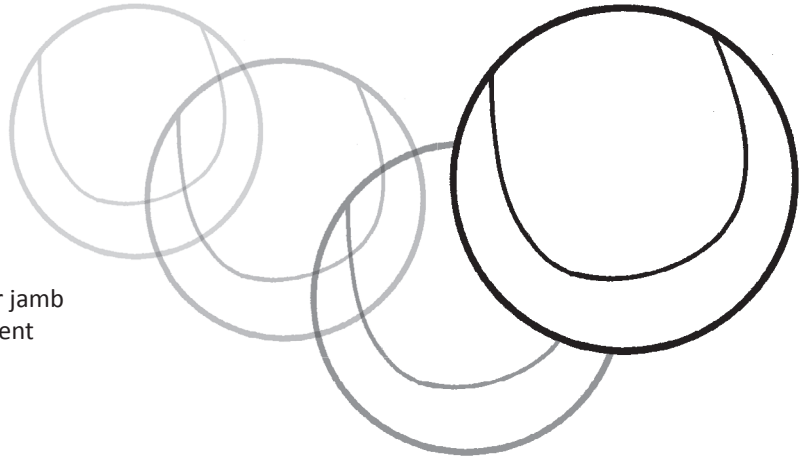
# Don't Leave Me Hanging

## Challenge

Build a contraption that will allow a tennis ball to hang the closest to the ground from a door jamb.

## Supplies

- 8 toothpicks
- 4 paper clips
- 2 straws
- 1 sheet of 8 ½" x 11" paper
- 2 rubber bands
- 1 tennis ball
- masking tape to hold contraption to the door jamb
- meter stick or measuring tape for measurement



## Requirements

1. All supplies must be used.
2. The contraption must be completed within the time limit.
3. The tennis ball may not be punctured in any way.

## Testing and Scoring

**Group goal** – The contraption must hold the tennis ball for 5 seconds to be measured.

- Tape will be provided to hold the contraption to the door jamb.
- Once the tape has been applied the team has 5 seconds to touch the contraption before measurement.

**Scoring** – The contraption that hangs the lowest will be considered the winner.

- The distance will be measured from the tape to the top of the tennis ball.

## Teacher Notes

- Goggles are recommended for safety. Things may break under the stress of the added weight.
- To make measuring easier, tape two or three meter sticks or a metric measuring tape to the door jamb prior to competition.
- If a team creates a contraption that is taller than the door jamb, find a taller area to hang it: hallways and gyms work well. If this isn't possible, have a member hold the tennis ball 5 to 10 cm above the floor and tape the contraption at that point. Consider this height the winning height.
- At the end of the activity, have students salvage as many of the unused or unbroken supplies as possible for use in other classes or for other activities.

